

EDITED BY E.R.  
BAUMANN VE3SNH

WRONG ADDRESS?  
SUBSCRIPTION  
PROBLEMS?  
CALL  
(807) 622-1216

NEXT MEETING IS THURSDAY  
MARCH 9, 1989

SEE SPECIAL BULLETIN  
THIS ISSUE

EVERYONE WELCOME

JOURNAL OF THE L.A.R.C.

REPLACERS OF SOUTHERN ONTARIO ... Jim VE3SAJ

Anyone heading South?

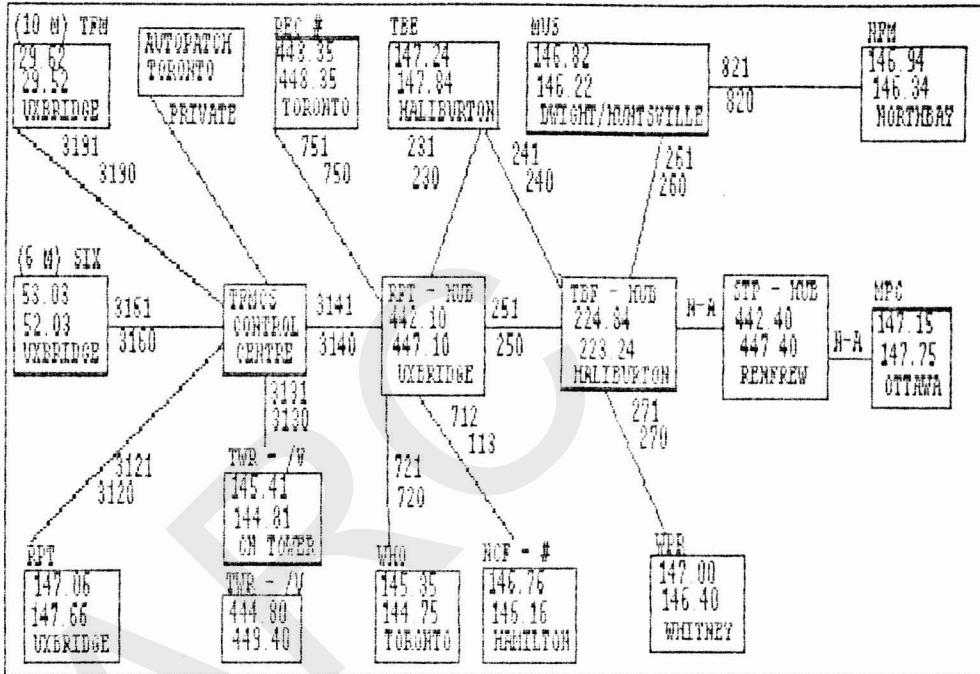
Spring is in the air and even though it's January, it won't be long until summer is here. I've decided to print this article to help anybody who plans to be in the Toronto area in the next while. When I was in Huntsville, Ontario last summer I met up with an old friend who I found to be a ham. Luckily, he lived in the Toronto area and he roughed out a diagram of the intricate system that all Torontonians have become accustomed to. Hopefully, this will straighten things out for the northern mobile ham.

Fortunately, it's a really nicely linked system which runs from North Bay (VE3NFM) to Hamilton (VE3NCF). It links over a two hundred mile area (as the crow flies). Even more impressive is the phone patch links, which can be done from North Bay all the way into Toronto. This saves a lot of money in phone costs since the local patch is done through a local repeater.

One thing I found confusing was the repeater identifiers. If you decide to link from VE3MUS to TBF (HUB) you will not encounter any problems. If you continue to link to VE3RPT (Toronto) then you get 3 repeaters IDing all on top of each other. What this adds up to is you don't know if you have accessed the Toronto repeater until either your patch goes through, or someone tells you that you are in. Anybody heading down might want to say HI to VE3MTC (Bracebridge) for me, Murry and the guys are very professional operators and a great bunch of HAMS. One other thing, anybody who is interested in inversions might want to head down to Huntsville in early August; some pretty weird things were going on down there, especially after those impressive lightning storms. So ... here's the setup (see diagram this page .. Ed)

So there you go. The repeater situation in the Toronto area as of August 1988. Further links have been added to the system but I can't remember which ones are being replaced.

One final thing, involving the P 500 this year. It can be described as impressive, but it was much more than that. When I received my licence, I found enough garbage on the 2M band to scare me a little. After the JEEP 500, boy it sets you straight. It was a professional, well organized, well run operation. My thanks to the many HAMS in this city



who have stuck to professional operation and in doing so, made hamming all the more enjoyable for myself. 73's es see you next event  
Jon Jowett - VE3SAJ

Notes: In the boxes the top number is the OUTPUT and the bottom number is the INPUT.

The lines between the repeaters are the linking access codes, top number ON (end is 1), bottom number OFF (ends in 0).

For VE3NCF and REC the # must precede all codes after linking.

The links marked N-A are not available account technical problems like lightning.

DX BULLETIN

It may be a possibility to work ALBANIA sometime this year. ZA1SV maybe the potential callsign. Stay tuned for this one and get in on the pile up. Late July and late August is the goal. Greek hams will try to get ALBANIA to allow them to operate on ZA1 land. Maybe ALBANIA has heard of G L A S H O S T !

YE OLD DICTIONARY

**ANTIPODAL PROPAGATION** a natural phenomenon seen on hf satellite links. Especially during periods of high solar activity. The absorption and refracting of hf energy. Normally this occurs only up to about 10 meters. Occasionally energy gets trapped in ionospheric layers and travels halfway around the earth exiting at the magnetic antipod of the point of entry. During the last cycle, AO-8 and RS-1 satellite users had fun watching for antipodal propagation. This cycle, one should use RS-10/11 which uses 15 & 10 meter links. Listen up.

**807** 1) Beer, if one chooses to say 807 he is really saying that he is drinking beer. 2) a transmitting tube not seen much today (about the same size as a beer bottle). 3) our area code..hi..hi.

**BEER** alcohol, a term used to signify that one is enjoying a glass of num, yea... etc. I prefer a cold 807 myself but many enjoy a glass with a few icecubes and some "Palm Breeze".

**EDGE DIFFRACTION** an effect whereby some energy from OSCAR reaches your antenna directly while other energy maybe slightly diffracted by this phenomenon, caused by a distant mountain or ridge on your horizon.

**THORIUM FILAMENT** a tungsten (metal) vacuum tube filament to which a small amount of Thorium has been added to improve emission. The Thorium comes to the surface and is primarily responsible for the electron thermal emission.

## UPCOMING EVENTS FOR MARCH

**special bulletin special bulletin special bulletin special bulletin special bulletin special**  
**AIRPORT TOUR 1989**

On Thursday March 9 we will meet at the OLD tower at 7:00 P.M. (but please try and be early) this building is where the weather office and flight service are located.

We will be touring the weather office, flight service station, and control tower. At the request of the control tower manager we will break up into groups of 10, and each group will tour one facility at a time. Anyone with a mini-van, station wagon, bus...etc, that would not mind taking part of group over to the tower (and vice versa) please let the executive know before the 9th if possible.

**SUMMARY:** meet at weather office (the old tower) at 7:00 p.m.; people wishing to carpool from the EMO building can do so on their own.

Once everyone has arrived we will carpool over to the new tower.

PARKING in and around the airport is a problem. There are some spaces in the wx lot after working hours but BE AWARE that they will ticket you if you are in a no parking zone. There are metered spaces in the main terminal lot.

MEMBERS and non members, friends and so on are welcome but **AT THE REQUEST OF THE TOWER MANAGER --- NO CHILDREN PLEASE**

Anyone needing directions prior to the beginning of the tour can call on repeator VE3YQT (147.060 [1-600]). After the tour has started assistance can be found on 146.94 [simplex]. It may be a good idea if you bring your handheld.

We will have a very short meeting after the tour, probably at the THUNDER BAY FLYING CLUB LOUNGE where we can get coffee but an alternate location may be chosen depending on the consensus of the group.

BRUCE BINNIE VE3GHB is going to come into work after hours to give the weather office tour so try and be prompt so we do not consume more of his free time than is necessary.

We are getting a very in depth tour of these facilities thanks to some dedicated individuals. I am sure everyone will enjoy it.

TNX James VE3JSC

**BNC BLUES.....GLEN VE3JAU**

The two meter handheld has to be one of the most versatile pieces of radio gear available to the ham. Besides having the ability to be carried on the person it can also be used as a base or mobile with the use of an external antenna and power. However, as the use of an external antenna increases the risk of wearing out the female BNC on the handheld also increases. Therefore I have a solution that may be considered even though some may think it is rather cumbersome and unnecessary.

My solution is not expensive or time consuming compared to the problems encountered should your BNC connector wear out on your handheld. It is quite a job to replace the BNC and why should you when it can be prevented.

Quite awhile ago, it was pointed out to me that if I continue to remove the duckie from my handheld it would wear out the BNC, so I took a little trip to the nearest Radio Shack store to see what they had to offer. Lo and Behold! I found a male BNC to SO-239 and a PL-259 to female BNC adapters.

Thusly I installed the male BNC adapter on the handheld and then

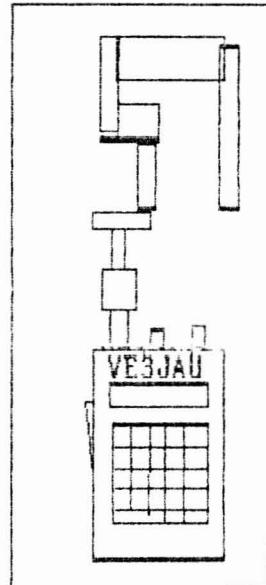
the PL-259 on top of this adapter. Now I could install my duckie on top of this to complete the installation. Total cost was under ten bucks.

Of course with this added "hardware" it does add to the length of the antenna system, but should not affect the VSWR appreciably as it is shielded up to the duckie. Also, the losses should not be that great as to make any difference; I have not noticed any.

On the lighter side, this hardware allows you to use either a BNC connector or a PL-259 on your handheld depending on what connector the antenna uses, thus eliminating the frustration of incompatible connectors-BONUS!

Using this approach to the BNC BLUES will help prevent further wear of your handheld's BNC and give you the convenience of the PL-259 commonly used on antennas. Therefore, it is my opinion that the advantages outweigh the disadvantages. Now you've heard the rest of the story. 73's de

Glen VE3JAU



THANKS TO VE3PHL for the dictionary items!

## LUTSEN SKI TREK NUMBER 2 .... FEB.11

Once more down the slippery slopes of LUTSEN with AVS, JAU, AND AXL representing TBARS. Top notch snow and groaning added to reasonable temperatures meant excellent skiing. The driving conditions were also top notch (OKAY .... there was a short snow squall on the return trip).

JAU had fun working Silver Bay repeater on HT while AVS kept the wheels on the road. Also had QSO with AXL as he was pulling out of the driveway with a van full of kids. It pays to get to LUTSEN early .... get into the old parking lot next to the the runs. Lotsa people, especially after lunch. The gondola lift on Mystery Mountain was vacant for a while, so we had the runs to ourselves but going up and down while standing on skis is just a wee bit tiring. Well, we all tried the new gondola run across to Moose Mountain ... faster than the old bus but otherwise not too impressive.

Lineups at chairlifts long in late afternoon, so we packed it in and AVS, JAU, PHK and his XYL stopped at the Cascades for supper. Another successful TEARS trip. After post ski QSO with AXL, it was decided to make one more trek down this time on SUNDAY since the slopes are not as crowded. Circle ~~MARCH 12~~ on your calendar if you want to make the final trip down for the season. Phone/QSO with AVS your intentions so we can RV with each other on the air.

P.S. We used 94 simplex this time on the mountains, but next time we will use 52 simplex to avoid any possible conflict with the U.S. machines on 34/94

73

de

VE3AVS

## MONEY MATTERS ..... Gabe VE3ILX LARC Treasurer

Receipts	1st Quarter	2nd Quarter	3rd Quarter	YTD
Memberships	315.00	1,205.00	57.50	1577.50
Interest	17.01	28.25	45.79	91.05
Donations	595.00	61.87	0.00	656.87
Other	1170.53	88.00	58.00	1308.53
<b>TOTAL</b>	<b>2097.54</b>	<b>1,375.12</b>	<b>161.29</b>	<b>3633.95</b>
Expenses				
Admin	665.00	108.00	133.26	908.02
HI-Q	64.08	189.22	105.06	358.36
Phone	149.00	151.69	36.71	329.25
YQT	128.06	94.39		222.45
FW		45.00	50.00	95.00
Special	695.00	50.00		745.00
Events	126.62			126.62
<b>TOTAL</b>	<b>1820.53</b>	<b>639.14</b>	<b>325.03</b>	<b>2784.70</b>
Current				
Balance	2588.45	3244.43	3080.69	3080.69

Contact Gabe VE3ILX if you require details.

Hey buddy, can you spare a dime?

Here's the second edition of HI-Q, I hope it's meeting your expectations. Let me know if it isn't. As I get used to the software it should look even better. Sorry for the number of typo's and other weird errors, but I just finished a 12 hour night shift. Thanks to all that have submitted stuff for publications. If it hasn't been printed yet, don't worry, it will be in subsequent issues. I'm trying to keep it down to three pages so that the duplicating costs will be reasonable and some articles are time sensitive so they have to come first. By the way, this is printed at Business Printing on May Street by the owner Phil Spakowski, who if he is as nice a guy as everyone says will give us an even better price because of this unabashed plug. By the way if you want to submit anything, it doesn't have to look pretty, just very legible, because I type everything over again anyway. If you can't write neatly, print, type, dictate to your secretary, but get yourself heard. This is your club, if it's not going your way don't walk away from it, get involved and make it happen (I'm starting to sound like Wayne Green). Who did you Elmer, or encourage to join the club this year? Remember, more members means more revenue, more money means more club activities. Again, thanks for all the submissions, like John's (PHL) article regarding the Armenian DX effort. Hey, how about that dinner, my thanks to JAU for another job well done. See you next month.....73  
Ed(editor) VE3SNW

HELLLLLLLLLLLLP ---- JOHN N8HZH NEEDS A CIRCUIT DIAGRAM OR SERVICE MANUAL FOR A GONSET HF (6-80 METER) RECEIVER MODEL G76. CALL GABE (ILX) IF YOU CAN HELP. THIS SPACE AVAILABLE TO YOU FOR ADS OF ALL KINDS FREE TO MEMBERS (DONATIONS TO THE CLUB ARE NICE

## CALL BOOKS

The club has received the 1989 North American and International Callbooks. Since access to the club station is inconvenient (keep your ear to the ground for news regarding a new location for the club . . Ed) to most members, I'll keep the books at my house for now. If you want to borrow them, you can pick them up, or I can look up individual addresses for you. If I find this task is getting too onerous (I'm an getting threatened with divorce or even worse . . withdrawal of telephone privileges) I'll ask for another individual to volunteer as custodian or we will have to put them back at FW. Thanks VE3ILX

LARC

WORK FIRST, WORRY LATER! by VE3OTC

Try entering 145.55 mhz FM in your radio (2M or scanner) and listen for U2MIR. The station appears to be a soviet ham in space. I copied him answering W2's K6's and VE6's all unheard, at about 0200 (local) / 0700 GMT 17 November 88. If you have enough power you might even work him. Signals went from S3 to S8 to S2 and were all full quieting on an IC 62AT and butternut co-linear. This is not that unlikely as I picked up SSTV from the space shuttle in 1985 on 2M FM with a rubber duck and H/T

john, VE3OTC

FOR SALE FOR SALE FOR SALE:::

- KENWOOD TS 520 SE
- MICRONTA 3 Range VSWR Bridge
- KENWOOD (unknown)
- 2 Armaco Mikes
- 1 Electrohome Speaker
- 15M Hy Gain Antenna - 2 elements
- Old Tube TX (Rack Unit)

Contact Walter Taylor, Silver Springs Trailer Court at 577 7679. Asking \$800.00 or best offer.

NEXT MONTHLY MEETING:

As we know it is known the meeting will be held at the E.M.O building at 08 December 88 at 1930 hours. If there is any change all members will be advised. As yet we have NO firm word on any new meeting place. Hope to see you all at the meeting.

Remember that operators for Christmas messages must be known prior to the meeting and also we are looking for operators for the JEEP 500. At the last meeting approximately 10-12 operators expressed their interest to attend.

THE BEAM IS UP and VE3HRA is in great shape. Thanks to Norm, VE3XRC, James, VE3JSC, Bill VE3XJ and Skip VE3BBS! We managed to get our 3 element tribander up at about 32 meters and the students are working DX nicely on 10-15-20. Visitors are welcome to the shack during the lunch hours 12:00-1:00 daily. We are also thankful to BELL CANADA for providing the rotator and beam for our station

de Frank, VE3OTZ

FLASH FLASH FLASH FLASH FLASH FLASH FLASH

No matter which of the several Thunder Bay Repeaters you worship, you have to be deaf, dumb and blind not to acknowledge that Ole Man Winter is on his way..... which leads quite naturally to the topic of skiing.

TBARS (Thunder Bay Amateur Radio Skiers) is planning their first International Convention for Lutsen, Minnesota on the weekend of December 17/18. The details still have to be 'fleshed out' ... to go for one day only or two ... to go for the Saturday or the Sunday ... etc. Overnight plans would have to be made rather quickly for obvious reasons. The criteria for attending are: skis plus handitalki. There are excellent cross country trails at Lutsen, so it doesn't have to be just downhillers.

The following are known to have risked life and limb on the slopes in bygone years and could consider going VE3's OTC, AVS, ILV, EBL, AXL, JAU, PHT, KRN, PHK, PHT, and PHN. ANY OTHERS????

Please give Dave AVS a call at 344 8949 or John OTC at 767 9515 and pass on your ideas AS SOON AS POSSIBLE. It should be buckets of fun. Long live T.B.A.R.S.

de VE3AVS/SWC

FROM THE DICTIONARY by VE3PHL

Beginning with this issue I would like to start a new feature. I will go through an electronic dictionary and pick out 5 words at random and give their meanings. Some words will be familiar to most but these words are directed towards the new amateurs and students. While some of the others will be strange to us all. I hope I can find some real strange ones. Anyway I hope this new feature will educate us all. It will be titled as above:

**ADCOCK ANTENNA:** a pair of vertical antennas separated by one half wave length or less and connected in phase opposition to produce a figure \*8\* pattern.

**ATTENUATOR:** a resistive network that provides reduction of the amplitude of an electrical signal without introducing appreciable phase or frequency distortion. A circuit in the Tuner stage for signal reduction to prevent tuner overloading by a strong local signal.

**BIAS:** the electrical, mechanical, or magnetic force applied to a relay, semiconductor, vacuum tube, or other device for the purpose of establishing an electrical or mechanical reference level for the operation of the device. The average D.C. voltage between the control grid and cathode of a vacuum tube.

**PERIPHERAL ELECTRON:** Also called a valence electron, one of the outer electrons of an atom. Theoretically it is responsible for visible light, thermal radiation, and chemical combinations.

**VILLARI EFFECT:** A phenomenon in which a change in magnetic induction occurs when a mechanical stress is applied along a specified direction to a magnetic material having magnetostrictive properties.

**P.S.** A magnetostrictive material is one that shrinks or expands when a magnetic field, ferromagnetic metals such as nickel, iron, cobalt and manganese alloys...